

old

| Ref # | Hits | Search Query  | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|------|---|-------|------------------|---------|------------------|
| S52   | 813  | \$carrier same (("orthogonal frequency division multiplexing") or ofdm) | USPAT | OR               | OFF     | 2005/04/05 07:27 |
| S54   | 10   | S52 and (adaptive same direction\$3 adj antenna)                        | USPAT | OR               | ON      | 2005/04/05 07:31 |
| S56   | 0    | (adaptive adj direction\$3 adj antenna) and 370/380.ccls.               | USPAT | OR               | OFF     | 2005/04/05 07:32 |
| S55   | 0    | (adaptive adj direction\$3 adj antenna) and 370/208.ccls.               | USPAT | OR               | OFF     | 2005/04/05 07:32 |
| S57   | 9    | (adaptive adj direction\$3 adj antenna)                                 | USPAT | OR               | ON      | 2005/04/05 08:47 |
| S59   | 6638 | (access adj point)  | USPAT | OR               | ON      | 2005/04/05 09:03 |
| S58   | 1    | (adaptive adj direction\$3 adj antenna) and sdma                        | USPAT | OR               | ON      | 2005/04/05 09:03 |
| S60   | 160  | (access adj point) and 370/338.ccls.                                    | USPAT | OR               | ON      | 2005/04/05 09:04 |
| S61   | 28   | S60 and wlan  | USPAT | OR               | ON      | 2005/04/05 09:05 |
| S62   | 19   | S61 and (@ad<="20010830")   | USPAT | OR               | ON      | 2005/04/05 09:06 |
| S64   | 0    | S62 and (directional adj antenna)                                       | USPAT | OR               | OFF     | 2005/04/05 09:08 |
| S63   | 0    | S62 and (adaptive adj directional adj antenna)                          | USPAT | OR               | OFF     | 2005/04/05 09:08 |
| S65   | 9    | S62 and (antenna)   | USPAT | OR               | OFF     | 2005/04/05 09:11 |
| S66   | 0    | (access adj point) same (adaptive adj directional adj antenna)          | USPAT | OR               | OFF     | 2005/04/05 09:12 |
| S67   | 17   | (access adj point) same (directional adj antenna)                       | USPAT | OR               | OFF     | 2005/04/05 09:14 |
| S69   | 1    | (access adj point) same (adaptive near3 antenna)                        | USPAT | OR               | OFF     | 2005/04/05 10:44 |
| S68   | 22   | (access adj point) same (\$directional adj antenna)                     | USPAT | OR               | OFF     | 2005/04/05 10:44 |
| S70   | 1747 | (dedicat\$4 adj channel)  | USPAT | OR               | ON      | 2005/04/05 11:12 |
| S71   | 1201 | S70 and (monitor\$4 or cover or watch)                                  | USPAT | OR               | ON      | 2005/04/05 11:13 |
| S73   | 160  | S60 and "370"/\$.ccls.  | USPAT | OR               | ON      | 2005/04/05 11:14 |
| S72   | 0    | S60 and 370/208.ccls.   | USPAT | OR               | ON      | 2005/04/05 11:14 |
| S74   | 105  | S73 and (monitor\$4 or watch or cover)                                  | USPAT | OR               | ON      | 2005/04/05 11:15 |
| S75   | 97   | S74 and (access adj point)  | USPAT | OR               | OFF     | 2005/04/05 11:16 |
| S77   | 13   | S73 and (\$directional adj antenna)                                     | USPAT | OR               | ON      | 2005/04/05 11:19 |
| S76   | 7    | S75 and (\$directional adj antenna)                                     | USPAT | OR               | ON      | 2005/04/05 11:19 |
| S78   | 2    | S77 and monitor   | USPAT | OR               | ON      | 2005/04/05 11:26 |

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|----------|--------|---|-------|----|-----|------------------|
| S79      | 46     | (monitor\$4 same (new adj client\$2))                       | USPAT | OR | ON  | 2005/04/05 11:29 |
| S80      | 5      | S79 and (access adj point)                                  | USPAT | OR | OFF | 2005/04/05 11:31 |
| S81      | 0      | S79 and 370/208.ccls.                                       | USPAT | OR | OFF | 2005/04/05 11:32 |
| S83      | 0      | S79 and 370/464.ccls.                                       | USPAT | OR | OFF | 2005/04/05 11:33 |
| S82      | 0      | S79 and 370/338.ccls.                                       | USPAT | OR | OFF | 2005/04/05 11:33 |
| S84      | 11     | S79 and "370"/\$.ccls.                                      | USPAT | OR | OFF | 2005/04/05 11:35 |
| S85      | 2119   | (monitor\$4 same (control adj channel))                     | USPAT | OR | ON  | 2005/04/05 11:36 |
| S88      | 31     | S87 and (access adj point)                                  | USPAT | OR | ON  | 2005/04/05 11:37 |
| S87      | 433    | S86 and carrier   | USPAT | OR | ON  | 2005/04/05 11:37 |
| S86      | 718    | S85 and "370"/\$.ccls.                                      | USPAT | OR | ON  | 2005/04/05 11:37 |
| S91      | 313    | S90 and "370"/\$.ccls.                                      | USPAT | OR | OFF | 2005/04/05 12:54 |
| S90      | 1282   | (monitor\$4 same signal\$4 adj channel)                     | USPAT | OR | OFF | 2005/04/05 12:54 |
| S89      | 15996  | (monitor\$4 same signal\$4 same channel)                    | USPAT | OR | OFF | 2005/04/05 12:54 |
| S93      | 778219 | (designate\$3 control adj channel)                          | USPAT | OR | OFF | 2005/04/05 13:06 |
| S92      | 13     | S91 and ofdm  | USPAT | OR | OFF | 2005/04/05 13:06 |
| S96      | 184    | S95 and wireless  | USPAT | OR | OFF | 2005/04/05 13:07 |
| S95      | 375    | S94 and carrier   | USPAT | OR | OFF | 2005/04/05 13:07 |
| S94      | 467    | S93 and ofdm  | USPAT | OR | OFF | 2005/04/05 13:07 |
| S97      | 158    | S94 and monitor\$3  | USPAT | OR | OFF | 2005/04/05 13:08 |
| S98      | 9      | S97 and (access adj point)                                  | USPAT | OR | OFF | 2005/04/05 13:16 |
| S99      | 0      | "6430148".pn. and (control adj channel)                     | USPAT | OR | OFF | 2005/04/05 13:28 |
| S10<br>2 | 0      | "6430148".pn. and (monitor\$4 same designated)              | USPAT | OR | OFF | 2005/04/05 13:30 |
| S10<br>1 | 0      | "6430148".pn. and (monitor\$4 same dedicat\$3)              | USPAT | OR | OFF | 2005/04/05 13:30 |
| S10<br>0 | 1      | "6430148".pn. and (monitor\$4)                              | USPAT | OR | OFF | 2005/04/05 13:30 |
| S10<br>5 | 326    | (monitor\$4 same dedicated same channel) and "370"/\$.ccls. | USPAT | OR | ON  | 2005/04/05 13:32 |
| S10<br>4 | 5624   | (monitor\$4 same channel) and "370"/\$.ccls.                | USPAT | OR | ON  | 2005/04/05 13:32 |
| S10<br>3 | 1      | "6430148".pn. and (monitor\$4 same channel)                 | USPAT | OR | ON  | 2005/04/05 13:32 |
| S10<br>6 | 66     | (monitor\$4 same dedicated same channel same carrier)       | USPAT | OR | ON  | 2005/04/05 13:33 |
| S10<br>7 | 4      | "6636502"   | USPAT | OR | OFF | 2005/04/05 14:04 |

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| S10<br>9 | 1    | S108 and (@ad<="20010830")  | USPAT | OR | OFF | 2005/04/05 14:05 |
| S10<br>8 | 5    | gprs same ofdm  | USPAT | OR | OFF | 2005/04/05 14:05 |
| S11<br>2 | 0    | S111 and omnidirectional  | USPAT | OR | OFF | 2005/04/05 14:21 |
| S11<br>1 | 29   | S110 same (control adj signal\$4)   | USPAT | OR | OFF | 2005/04/05 14:21 |
| S11<br>0 | 813  | \$carrier same (("orthogonal frequency division multiplexing") or ofdm)           | USPAT | OR | OFF | 2005/04/05 14:21 |
| S11<br>3 | 0    | S111 and (\$directional adj antenna)  | USPAT | OR | ON  | 2005/04/05 14:22 |
| S11<br>4 | 3    | S111 same antenna   | USPAT | OR | ON  | 2005/04/05 14:25 |
| S11<br>7 | 42   | S116 and "370"/\$.cccls.  | USPAT | OR | ON  | 2005/04/05 14:26 |
| S11<br>6 | 66   | S106 and dedicated  | USPAT | OR | ON  | 2005/04/05 14:26 |
| S11<br>8 | 202  | S115 same dedicate\$3   | USPAT | OR | ON  | 2005/04/05 14:27 |
| S11<br>5 | 2119 | (monitor\$4 same (control adj channel))   | USPAT | OR | ON  | 2005/04/05 14:27 |
| S11<br>9 | 42   | S117 and dedicat\$3   | USPAT | OR | ON  | 2005/04/05 14:28 |
| S12<br>1 | 1    | "6671495"   | USPAT | OR | OFF | 2005/04/05 16:45 |
| S12<br>4 | 5    | S123 and register\$4  | USPAT | OR | OFF | 2005/04/25 11:07 |
| S12<br>3 | 29   | S122 same (control adj signal\$4)   | USPAT | OR | OFF | 2005/04/25 11:07 |
| S12<br>2 | 820  | \$carrier same (ofdm or (orthogonal adj frequency adj division adj multiplexing)) | USPAT | OR | OFF | 2005/04/25 11:07 |
| S11      | 29   | S9 same (control adj signal\$4)   | USPAT | OR | OFF | 2005/04/25 11:07 |
| S12<br>5 | 820  | \$carrier same (("orthogonal frequency division multiplexing") or ofdm)           | USPAT | OR | OFF | 2005/04/25 11:19 |
| S12<br>7 | 4    | S125 and (mobile same register\$4)  | USPAT | OR | OFF | 2005/04/25 11:22 |
| S12<br>6 | 202  | S125 and register\$4  | USPAT | OR | OFF | 2005/04/25 11:22 |
| S12<br>8 | 29   | S125 same (control adj signal\$4)   | USPAT | OR | OFF | 2005/04/25 11:23 |
| S6       | 29   | S2 same (control adj signal\$4)   | USPAT | OR | OFF | 2005/04/25 11:23 |

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| S13<br>0 | 3     | ("6351499"   "6400929"  <br>"6594320").PN.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2005/04/25 11:26 |
| S12<br>9 | 5     | S128 and register\$4  | USPAT                        | OR | OFF | 2005/04/25 13:05 |
| S13<br>2 | 0     | "L19" and (regist\$3 same mobile)   | USPAT                        | OR | OFF | 2005/04/25 13:06 |
| S13<br>1 | 4     | "L19" and (regist\$3 adj signal)  | USPAT                        | OR | OFF | 2005/04/25 13:06 |
| S13<br>5 | 1915  | S134 and "455"/\$.ccls.   | USPAT                        | OR | OFF | 2005/04/25 13:08 |
| S13<br>4 | 2610  | S133 same mobile  | USPAT                        | OR | OFF | 2005/04/25 13:08 |
| S13<br>3 | 80820 | registration  | USPAT                        | OR | OFF | 2005/04/25 13:08 |
| S13<br>6 | 820   | \$carrier same (("orthogonal<br>frequency division multiplexing") or<br>ofdm)   | USPAT                        | OR | OFF | 2005/04/25 13:11 |
| S13<br>7 | 202   | S136 and regist\$4  | USPAT                        | OR | OFF | 2005/04/25 13:13 |
| S2       | 809   | \$carrier same (("orthogonal<br>frequency division multiplexing") or<br>ofdm)   | USPAT                        | OR | OFF | 2005/04/25 13:16 |
| S13<br>9 | 0     | S136 and register\$3 same (hlr or<br>vlr)   | USPAT                        | OR | OFF | 2005/04/25 13:17 |
| S13<br>8 | 0     | S136 and (register\$3 same hlr)   | USPAT                        | OR | OFF | 2005/04/25 13:17 |
| S14<br>2 | 4     | S141 and ofdm   | USPAT                        | OR | OFF | 2005/04/25 13:18 |
| S14<br>1 | 2633  | (hlr or vlr)  | USPAT                        | OR | OFF | 2005/04/25 13:18 |
| S14<br>0 | 0     | S136 and (hlr or vlr)   | USPAT                        | OR | OFF | 2005/04/25 13:18 |
| S14<br>3 | 10    | ("20010003191"   "20010018336"  <br>"20010022780"   "20020031108"  <br>"20020036991"   "5412720"  <br>"6282577"   "6466556"   "6522629"<br>  "6535498").PN. | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2005/04/25 13:19 |
| S14<br>6 | 1364  | S145 and "455"/\$.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2005/04/25 13:27 |
| S14<br>5 | 8057  | wap   | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2005/04/25 13:27 |
| S14<br>4 | 6     | S143 and regist\$4  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2005/04/25 13:27 |

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|----------|--------|--|------------------------------|----|-----|------------------|
| S14<br>9 | 227    | S148 and carrier   | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2005/04/25 13:28 |
| S14<br>8 | 710    | S146 and (client or ms)                                      | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2005/04/25 13:28 |
| S14<br>7 | 368313 | S146 (client or ms)  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2005/04/25 13:28 |
| S15<br>0 | 59     | S149 and (hlr or vlr)  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2005/04/25 13:36 |
| S15<br>2 | 12880  | access adj point   | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2005/04/25 13:37 |
| S15<br>5 | 160    | S152 same ofdm   | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2005/04/25 13:38 |
| S15<br>3 | 160    | S152 same ofdm   | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2005/04/25 13:38 |
| S15<br>4 | 545    | S152 and ofdm  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2005/04/25 13:39 |
| S15<br>6 | 420    | S154 and carrier   | US-PGPUB;<br>USPAT           | OR | ON  | 2005/04/25 13:40 |
| S15<br>7 | 423    | S154 and \$carrier   | US-PGPUB;<br>USPAT           | OR | ON  | 2005/04/25 13:42 |
| S15<br>8 | 101    | S157 and client  | US-PGPUB;<br>USPAT           | OR | ON  | 2005/04/25 13:47 |
| S15<br>9 | 3      | S152 and (detect\$3 or associat\$4)<br>adj (new adj client)  | US-PGPUB;<br>USPAT           | OR | ON  | 2005/04/25 13:51 |
| S16<br>0 | 5      | S152 and (detect\$3 or associat\$4)<br>near (new adj client) | US-PGPUB;<br>USPAT           | OR | ON  | 2005/04/25 13:52 |
| S16<br>2 | 40     | wap same client near access\$3                               | US-PGPUB;<br>USPAT           | OR | ON  | 2005/04/25 13:53 |
| S16<br>1 | 849    | wap same client same access\$3                               | US-PGPUB;<br>USPAT           | OR | ON  | 2005/04/25 13:53 |
| S16<br>7 | 1      | S163 and ap  | USPAT                        | OR | OFF | 2005/04/25 13:57 |
| S16<br>6 | 1      | S163 and \ap   | USPAT                        | OR | OFF | 2005/04/25 13:57 |
| S16<br>5 | 0      | S163 and wap   | USPAT                        | OR | OFF | 2005/04/25 13:57 |
| S16<br>4 | 1158   | S163 wap   | USPAT                        | OR | OFF | 2005/04/25 13:57 |

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|----------|------|---|------------------------------|----|-----|------------------|
| S16<br>3 | 14   | (US-20040185856-\$ or US-20040264435-\$).did. or (US-5680142-\$ or US-6038450-\$ or US-6430148-\$ or US-6430421-\$ or US-6493331-\$ or US-6636502-\$ or US-6671495-\$ or US-6816706-\$ or US-6831902-\$ or US-6836484-\$ or US-6862297-\$ or US-6862451-\$). did. | US-PGPUB;<br>USPAT           | OR | OFF | 2005/04/25 13:57 |
| S17<br>1 | 227  | S170 and carrier  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2005/04/25 15:33 |
| S17<br>0 | 710  | S169 and (client or ms)   | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2005/04/25 15:33 |
| S16<br>9 | 1364 | S168 and "455"/\$.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2005/04/25 15:33 |
| S16<br>8 | 8057 | wap   | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2005/04/25 15:33 |
| S17<br>2 | 219  | S171 and wireless   | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2005/04/25 15:37 |
| S17<br>3 | 820  | \$carrier same (("orthogonal frequency division multiplexing") or ofdm)   | USPAT                        | OR | OFF | 2005/04/25 15:38 |
| S17<br>4 | 10   | S173 same register\$3   | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2005/04/25 15:47 |
| S17<br>7 | 0    | (hlr or vlr) same ofdm  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2005/04/25 15:48 |
| S17<br>6 | 0    | S173 same (hlr or vlr)  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2005/04/25 15:48 |
| S17<br>5 | 0    | S173 same (vlh or hlh)  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2005/04/25 15:48 |
| S17<br>8 | 31   | (hlr or vlr) and ofdm   | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2005/04/25 15:52 |
| S17<br>9 | 3    | S178 and (@ad<="20010830")  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2005/04/25 15:53 |
| S18<br>1 | 179  | S180 same assignment  | USPAT                        | OR | ON  | 2005/04/26 08:49 |
| S18<br>0 | 1662 | (request adj channel)   | USPAT                        | OR | ON  | 2005/04/26 08:49 |

|          |      |   |                              |    |     |                  |
|----------|------|---|------------------------------|----|-----|------------------|
| S18<br>3 | 698  | S180 and assignment   | USPAT                        | OR | OFF | 2005/04/26 08:52 |
| S18<br>2 | 1    | S181 and 370/431.ccls.  | USPAT                        | OR | ON  | 2005/04/26 08:52 |
| S18<br>4 | 330  | S183 and ((base adj station) or (mobile))   | USPAT                        | OR | OFF | 2005/04/26 08:53 |
| S18<br>6 | 2465 | (request adj channel)   | US-PGPUB;<br>USPAT           | OR | ON  | 2005/04/26 09:00 |
| S18<br>5 | 2    | S184 and ofdm   | US-PGPUB;<br>USPAT           | OR | ON  | 2005/04/26 09:00 |
| S18<br>8 | 149  | S186 same assignment  | USPAT                        | OR | OFF | 2005/04/26 09:16 |
| S18<br>7 | 49   | S186 and 370/431  | US-PGPUB;<br>USPAT           | OR | ON  | 2005/04/26 09:16 |
| S19<br>0 | 296  | S186 and (channel adj assignment)   | USPAT                        | OR | OFF | 2005/04/26 09:17 |
| S18<br>9 | 296  | S186 and ("channel assignment")   | USPAT                        | OR | OFF | 2005/04/26 09:17 |
| S19<br>1 | 137  | S190 and ("base station")   | USPAT                        | OR | OFF | 2005/04/26 09:21 |
| S19<br>2 | 205  | S190 and (("base station") or mobile)   | USPAT                        | OR | OFF | 2005/04/26 09:22 |
| S19<br>3 | 1    | S192 and ofdm   | USPAT                        | OR | OFF | 2005/04/26 10:33 |
| S19<br>5 | 20   | S192 and 455/509.ccls.  | USPAT                        | OR | OFF | 2005/04/26 10:38 |
| S19<br>7 | 7    | ("5544196"   "5673259"   "5802465"   "5828662"   "6052594"   "6256301"   "6366779").PN. | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2005/04/26 10:59 |
| S19<br>6 | 16   | S195 and ("control channel")  | USPAT                        | OR | OFF | 2005/04/26 11:00 |
| S19<br>9 | 15   | S196 and (@ad<="20010830")  | USPAT                        | OR | OFF | 2005/04/26 11:01 |
| S19<br>8 | 18   | S195 and (@ad<="20010830")  | USPAT                        | OR | OFF | 2005/04/26 11:01 |